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THE UNITED STATES OF AMERICA

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United States Patent and Trademark Office

November 19, 2003

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/411,901

FILING DATE: September 20, 2002

RELATED PCT APPLICATION NUMBER: PCT/US03/29648



By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS

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U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE
PTO/SB/17 (10-01)

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT (\$) 80

Complete If Known

Application Number To Be Assigned
Filing Date July 23, 2002
First Named Inventor Ron Halliburton
Examiner Name
Group / Art Unit
Attorney Docket No 36871-181827

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to

Deposit Account Number 22-1261

Deposit Account Name VENABLE

☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
☒ Applicant claims small entity status See 37 CFR 1.27

2. ☒ Payment Enclosed.

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	208	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	80

SUBTOTAL (1)

(\$ 80)

2. EXTRA CLAIM FEES

Total Claims ** = Extra Claims X Fee from below = Fee Paid
Independent Claims ** = X =
Multiple Dependent X =

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0)

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
116	110	216	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)	
126	160	126	160	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 0)

SUBMITTED BY

Name (Print/Type)	Andrew C. Aitken	Registration No. Attorney/Agent	36,729	Telephone	202-962-4800
Signature		Date	9/18/02		

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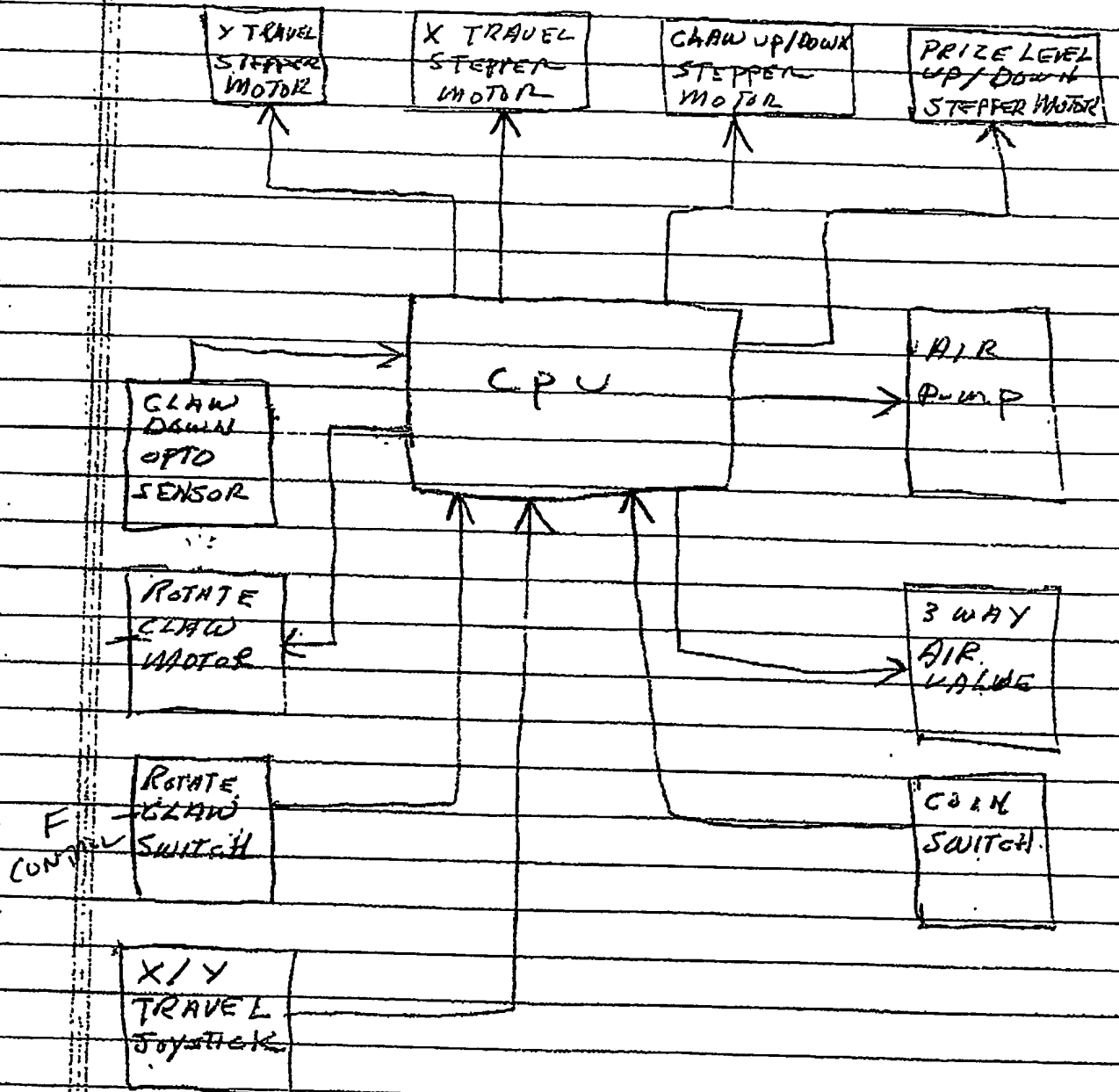
PC Docs No. 389697

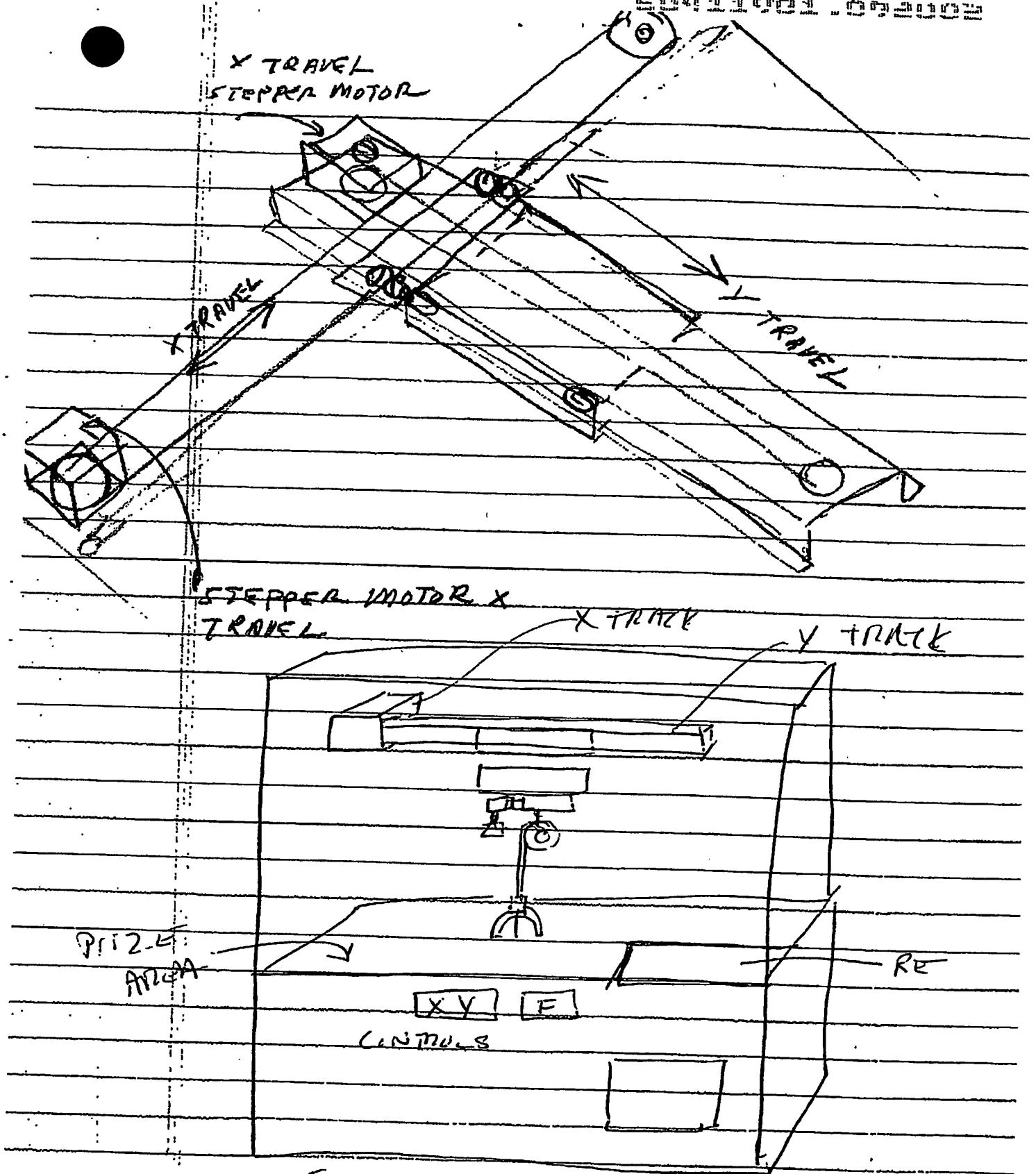
$\frac{1}{n} \sum_{j=1}^n x_j$ $\frac{1}{n} \sum_{j=1}^n y_j$ $\frac{1}{n} \sum_{j=1}^n z_j$ $\frac{1}{n} \sum_{j=1}^n w_j$ $\frac{1}{n} \sum_{j=1}^n v_j$

- ① of 20

STEPPER MOTORS VERSUS DC MOTORS

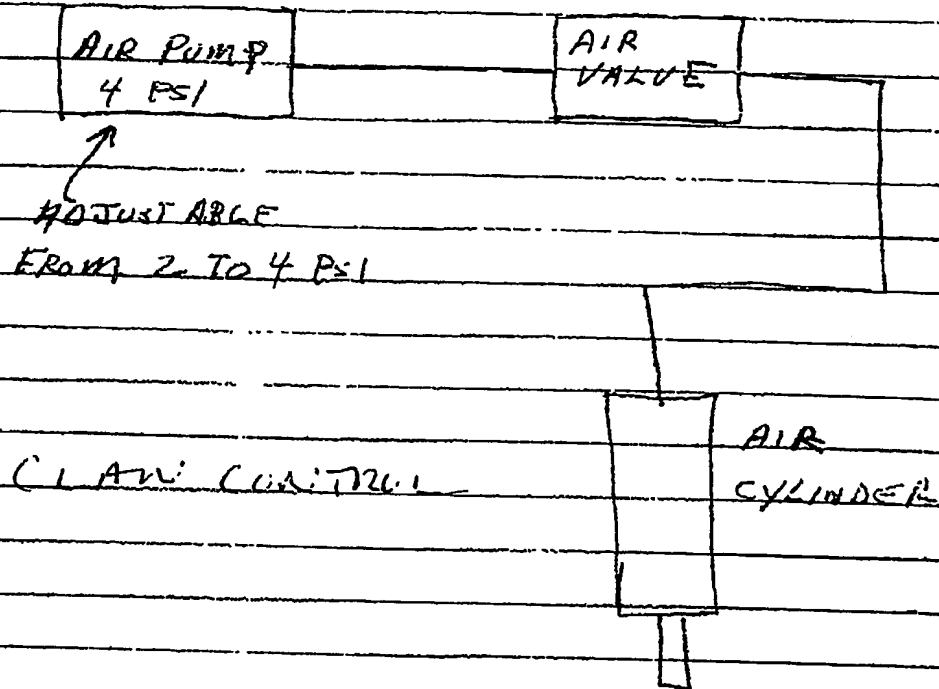
- (1.) WITH DC MOTORS DOING $X/Y/Z$ TRAVEL THEY NEED A END OF TRAVEL SWITCH AT EACH END. 6 SWITCHES IN TOTAL WITH STEPPER MOTORS NO SWITCHES ARE NEEDED.
- (2.) IF THERE IS A MECHANICAL PROBLEM THAT LIMITS TRAVEL A DC MOTOR WILL BURN OUT IN A STALL POSITION. IF A STEPPER MOTOR IS STALLED IT WILL JUST SLIP.

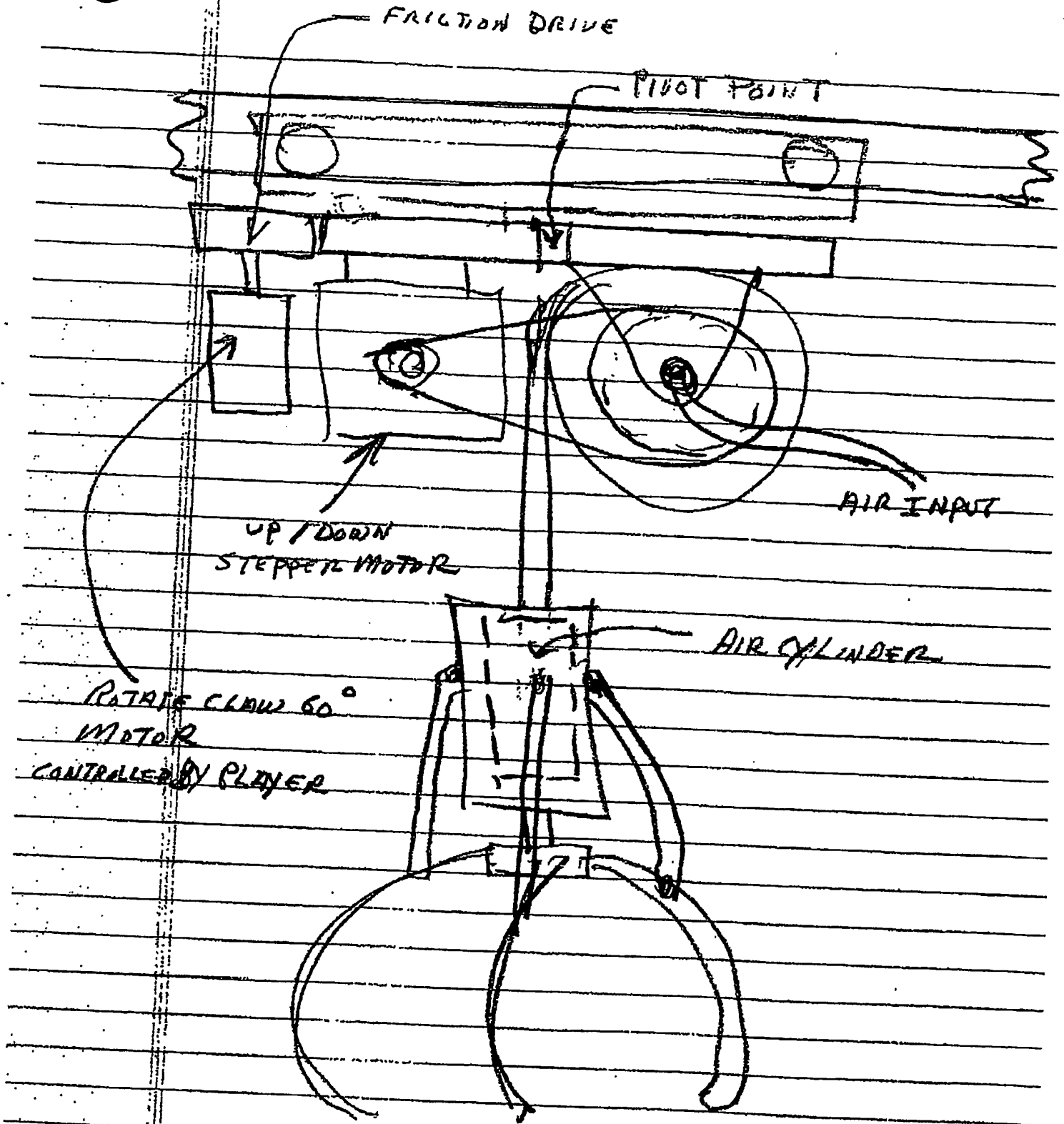




F CONTROL ALLOWS CRANE CLUTCH TO ROTATE. -

(4) 4 20

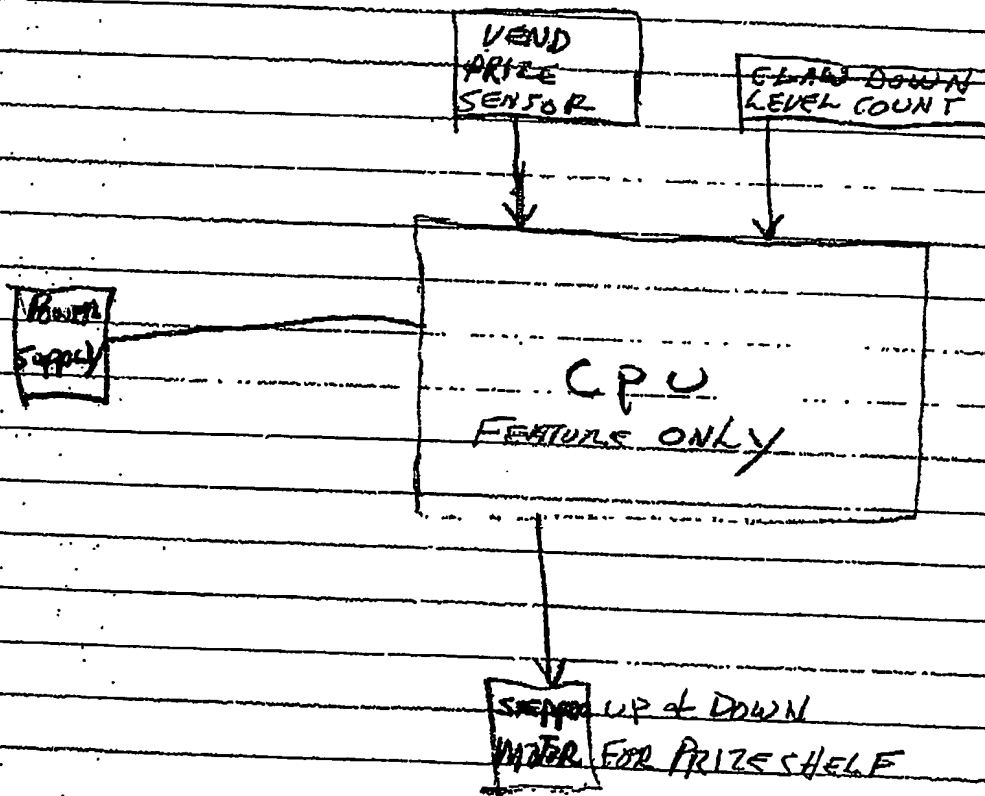




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CRANE FEATURE
TO KEEP PRIZE LEVEL FULL AND
RELOADS 50% LESS.

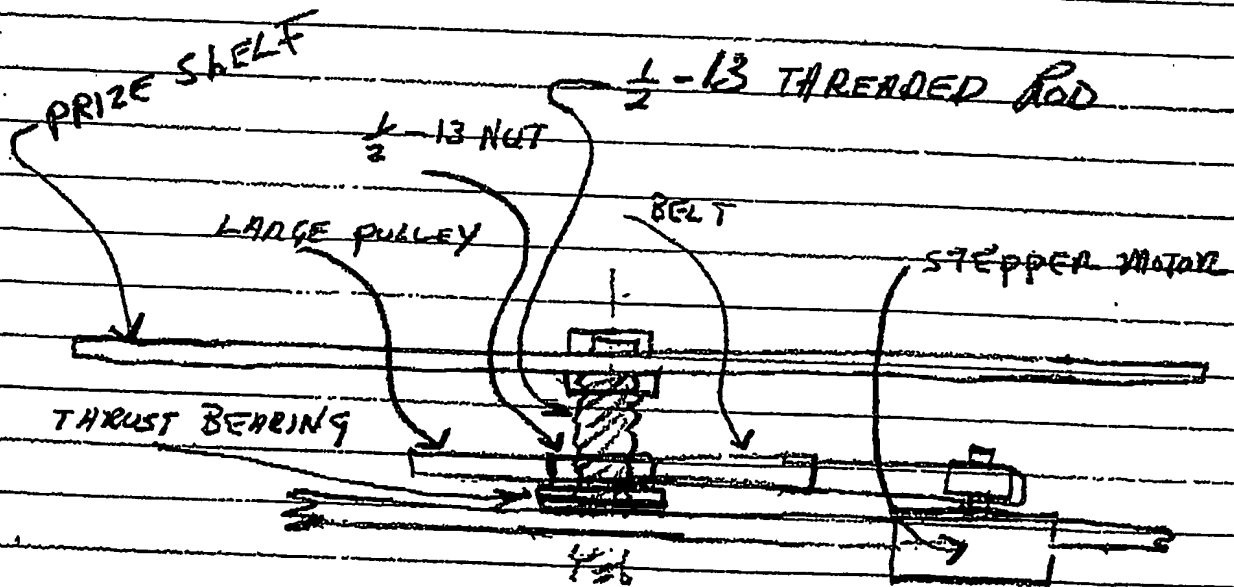
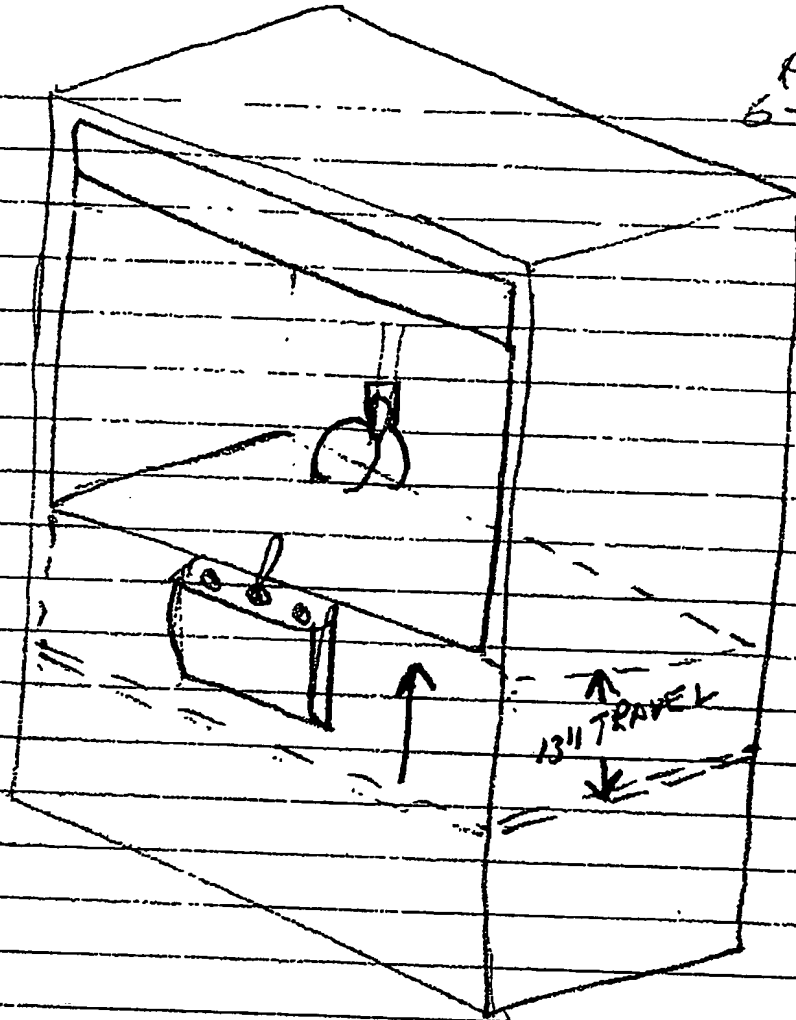
- (1) THE STEPPER MOTOR WILL RAISE THE PRIZE SHELF WHEN PRIZE VEND COUNT TABLE IS REACHED OR HOW FAR THE CLAW CAN BE LOWERED. THE RATE OF CLIMB FOR PRIZE SHELF IS VERY SLOW ABOUT 1" PER HOUR. MAXIMUM SPEED. RESET SPEED WILL BE NORMAL.



RON HALLIBURTON
6-10-02

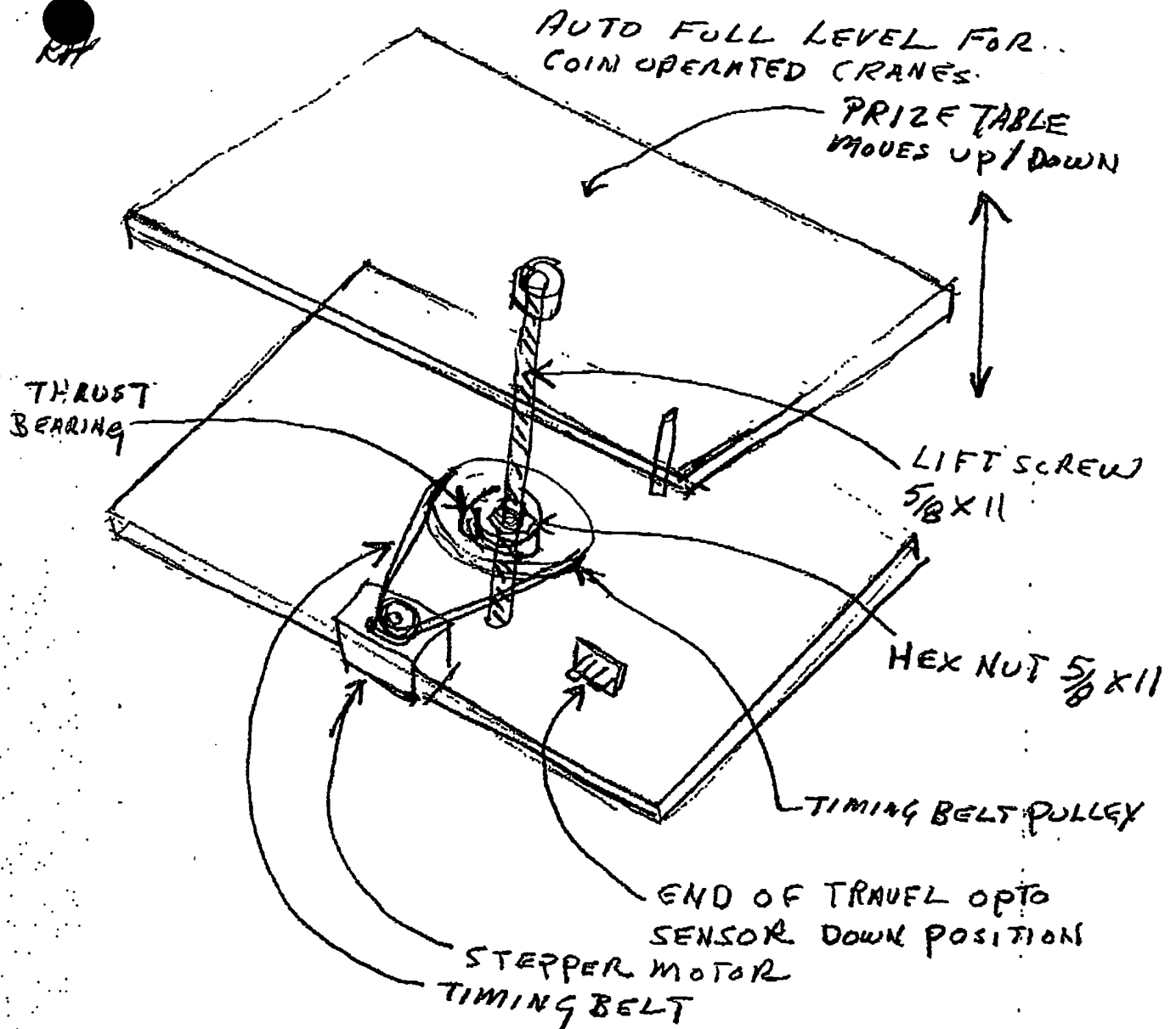
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RON HALLIBURTON
6-10-02



(8) 4 20

RH

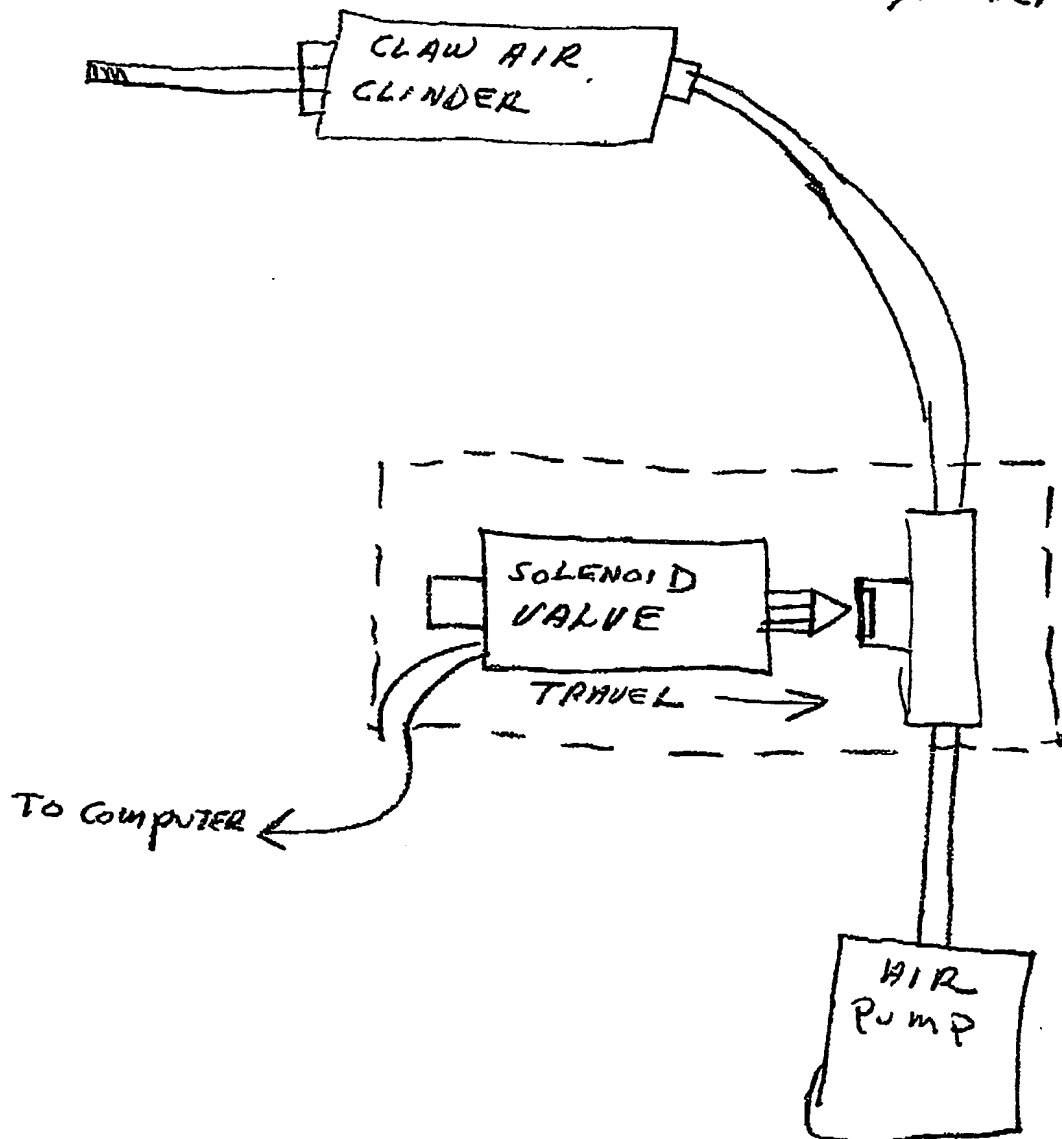


WHEN CRANE IS LOADED THE PRIZE TABLE IS RESET TO DOWN POSITION. AS GAMES ARE PLAYED THE TRAVEL OF THE CLAW IS LOGGED WITH EACH PLAY WHERE A AVG. PRIZE LEVEL CAN BE DETERMINED. THIS ALLOWS FOR A INTELLIGENT WAY OF KEEPING PRIZE LEVEL NEAR FULL FOR MAXIMUM PLAY APPPEAR. ALSO DOUBLE AMOUNT OF PRODUCT CAN BE LOADED EACH TIME LIMITING THE AMOUNT OF SERVICE CALLS.

9-12-02

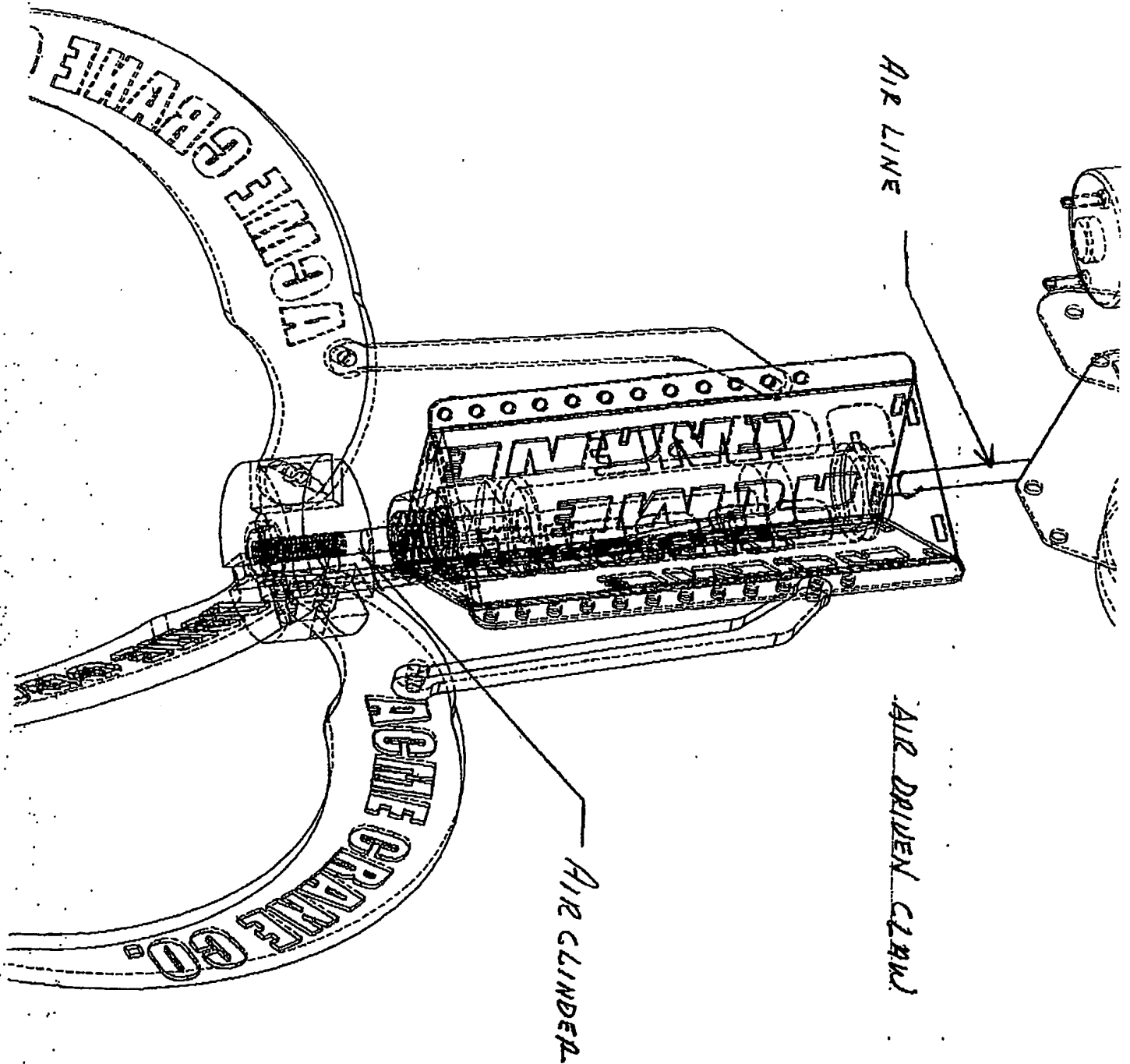
(9) of 20

CRANE CLAW USING AIR CYLINDER



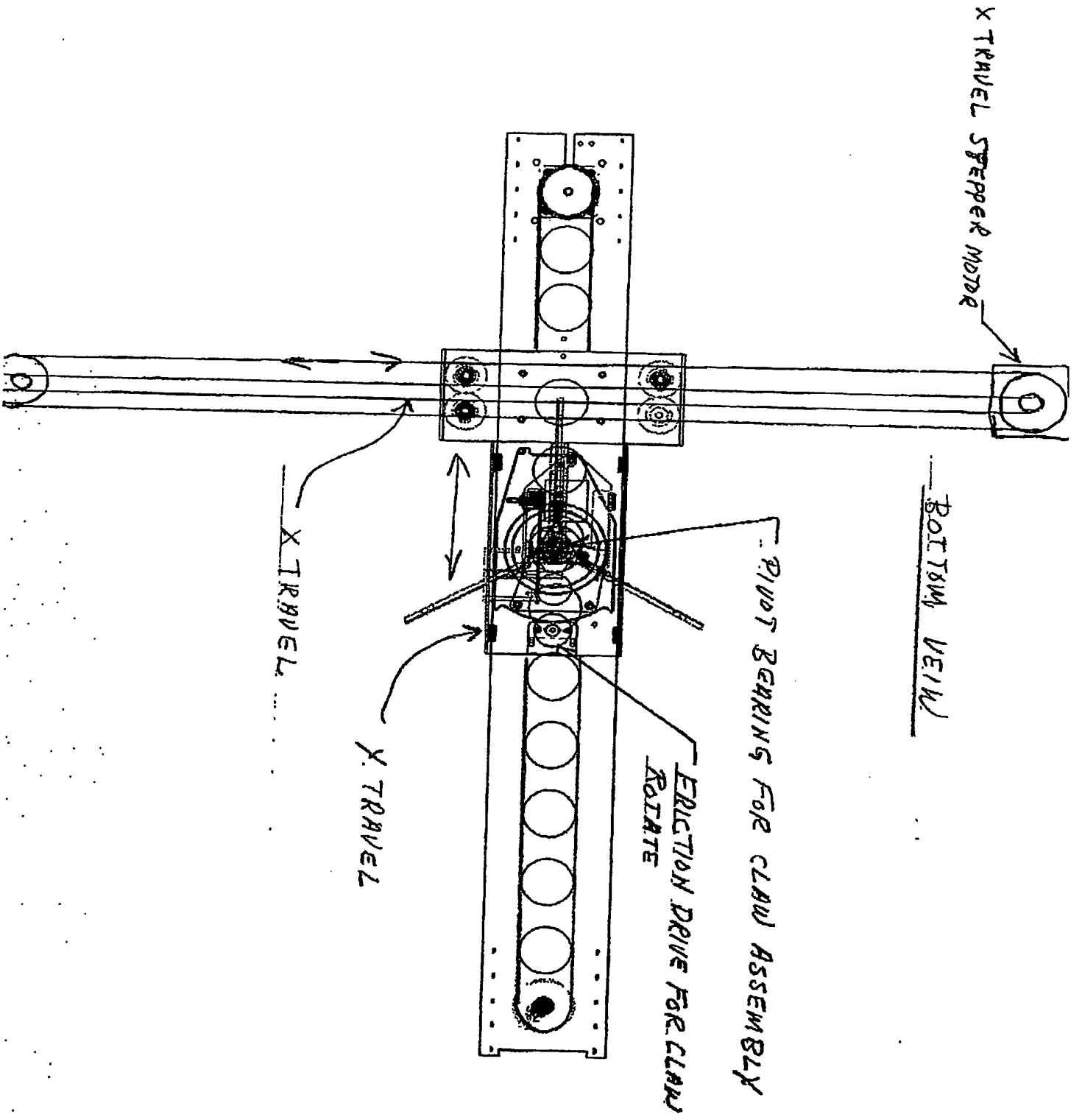
WHEN SOLENOID IS ENERGIZED AIR PRESSURE BUILDS
 TO ACTIVATE AIR CYLINDER WHEN SOLENOID IS RELEASED
 AIR PRESSURE IS RELEASED ALLOWING AIR CYLINDER
 TO RETURN.

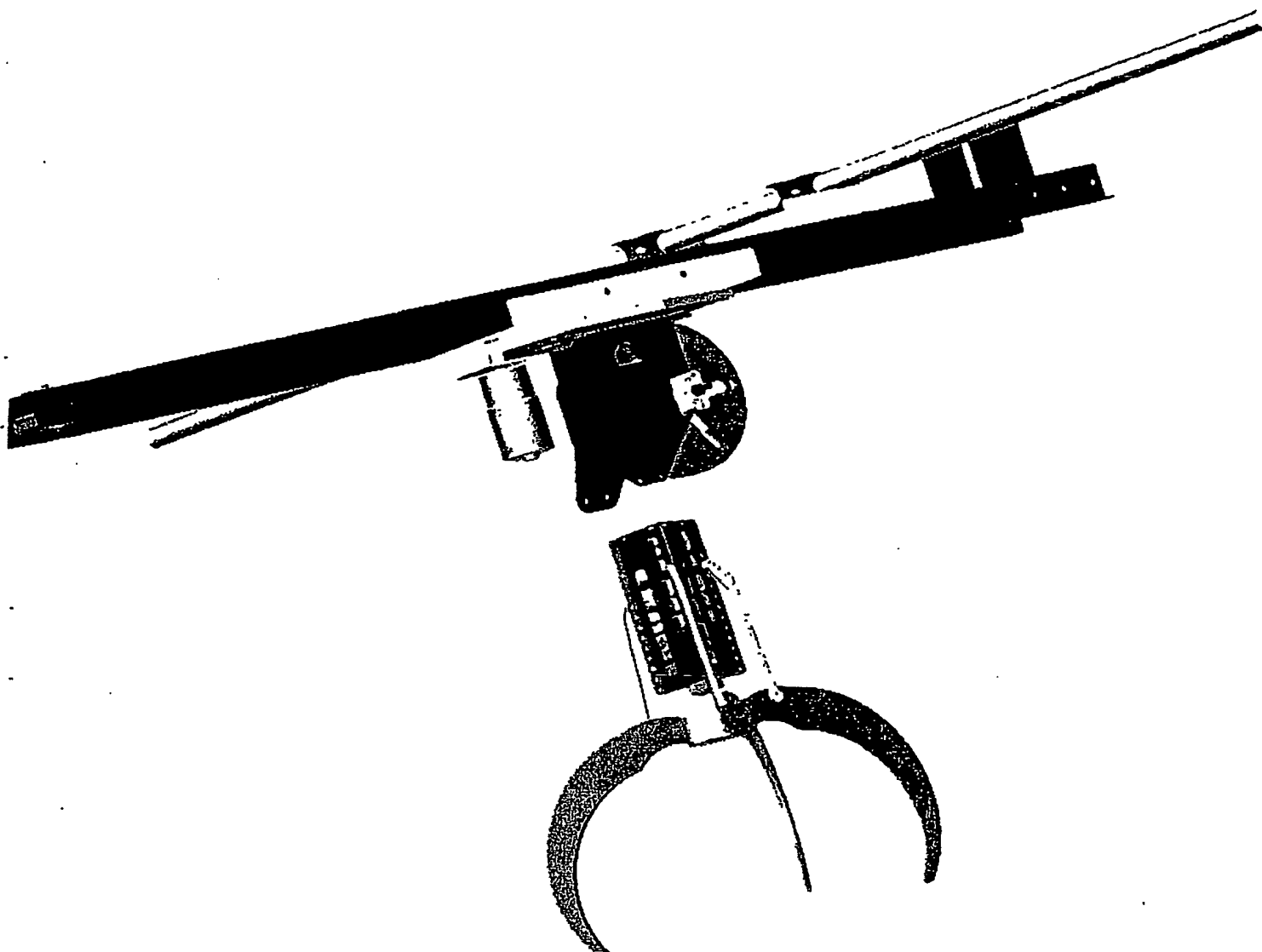
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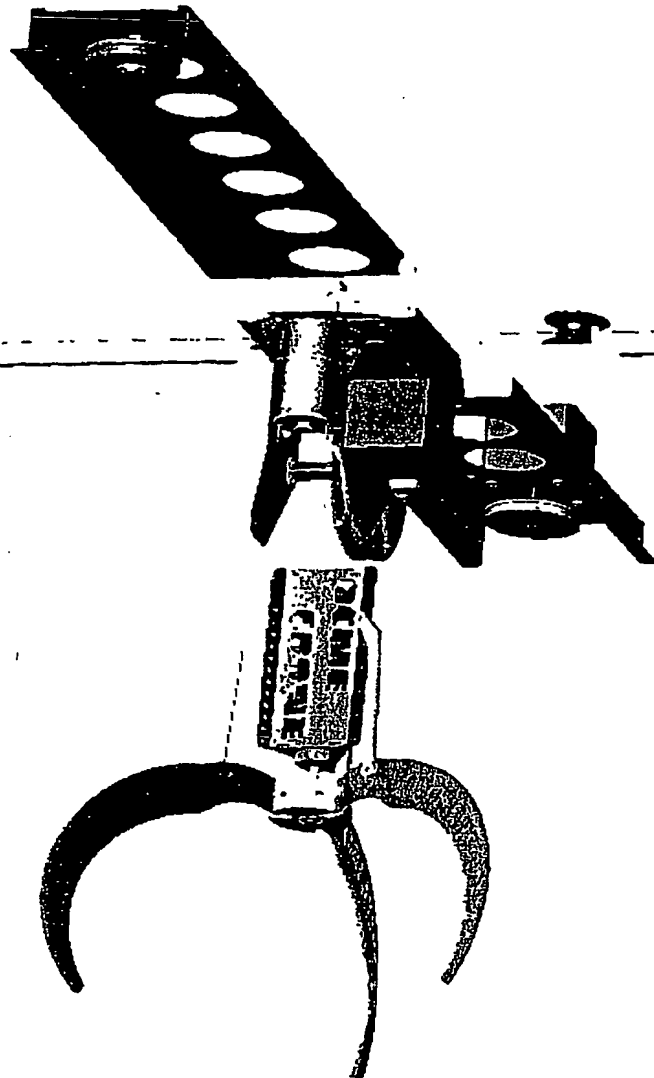
(11) 420

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

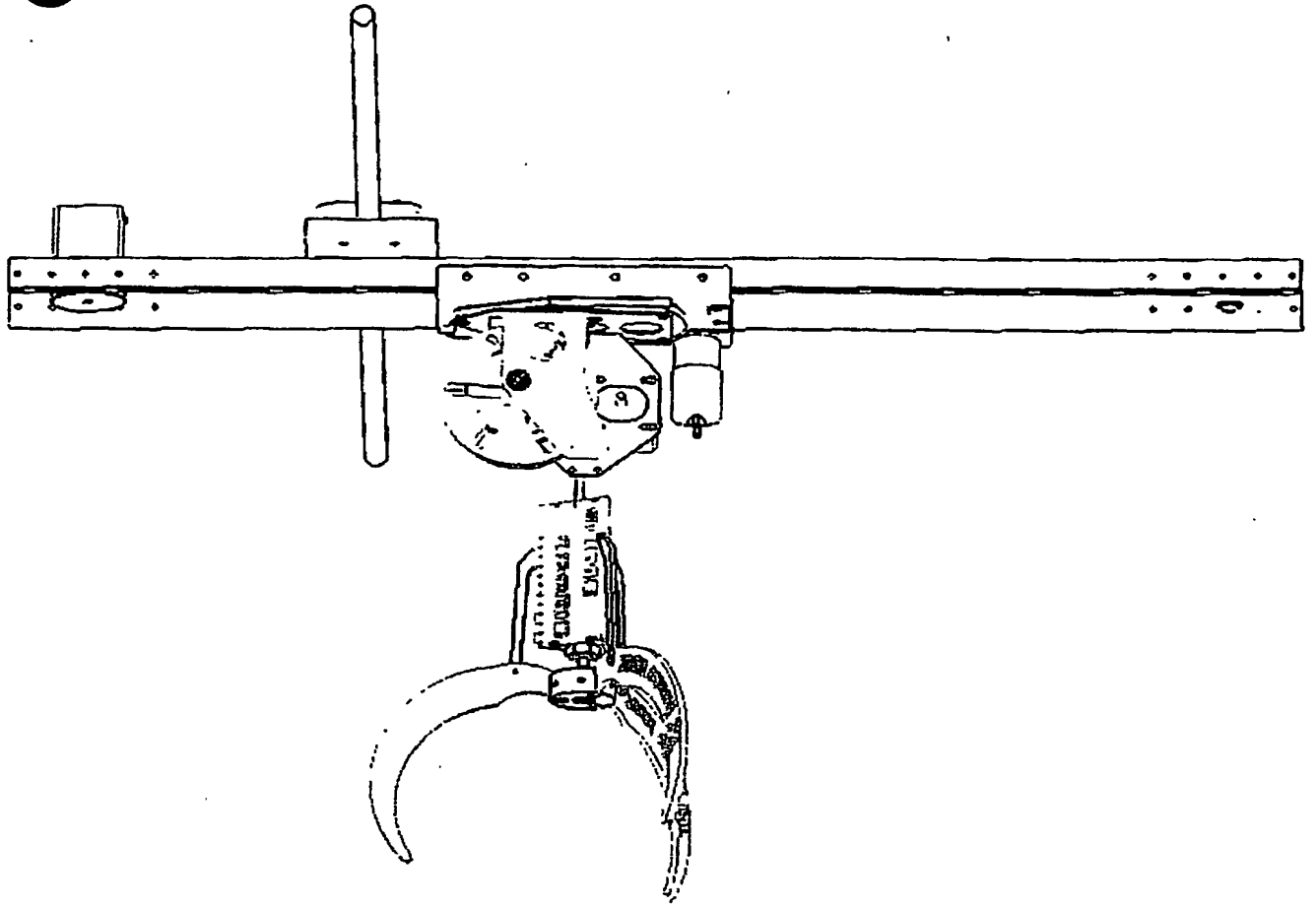




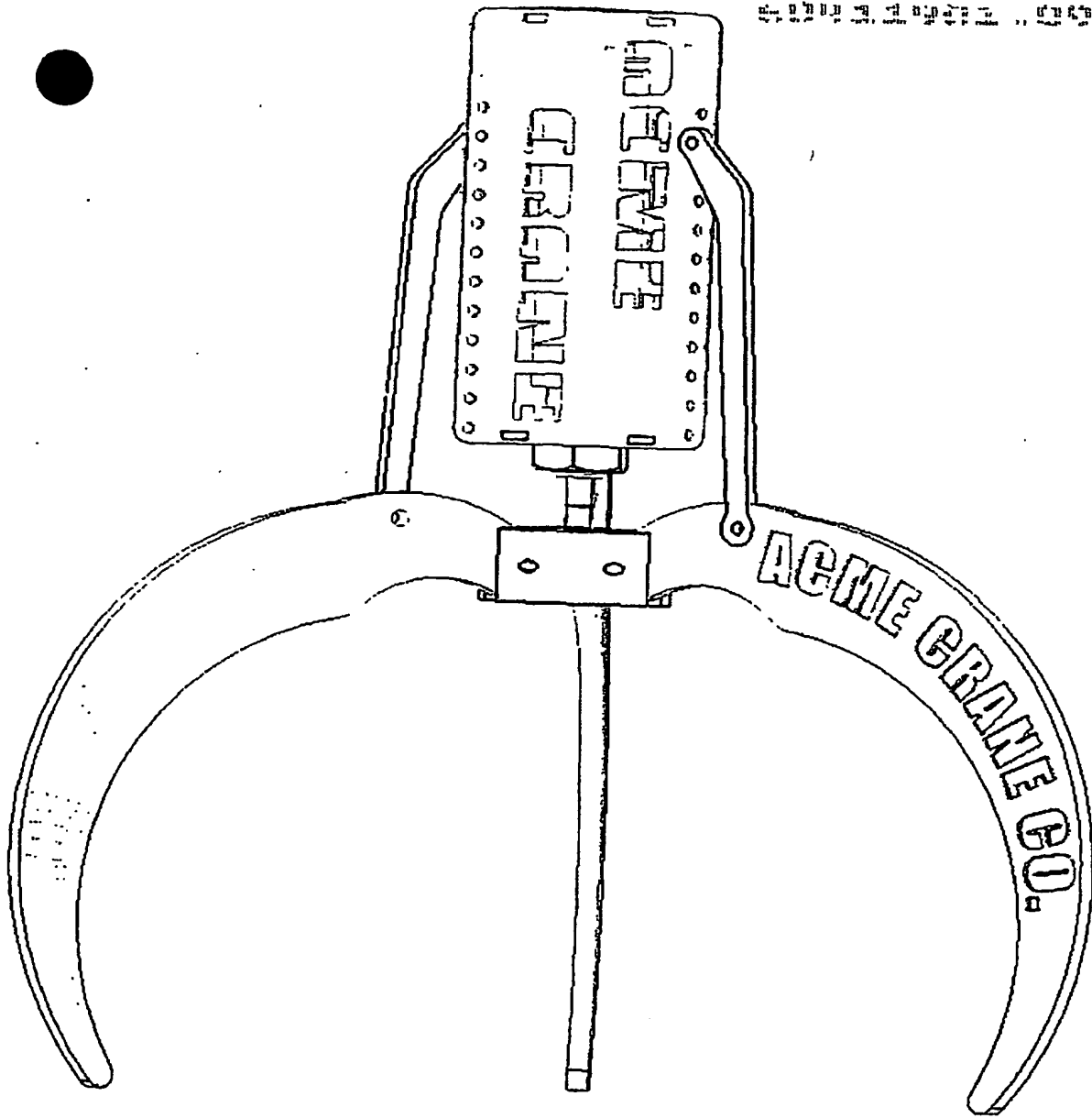
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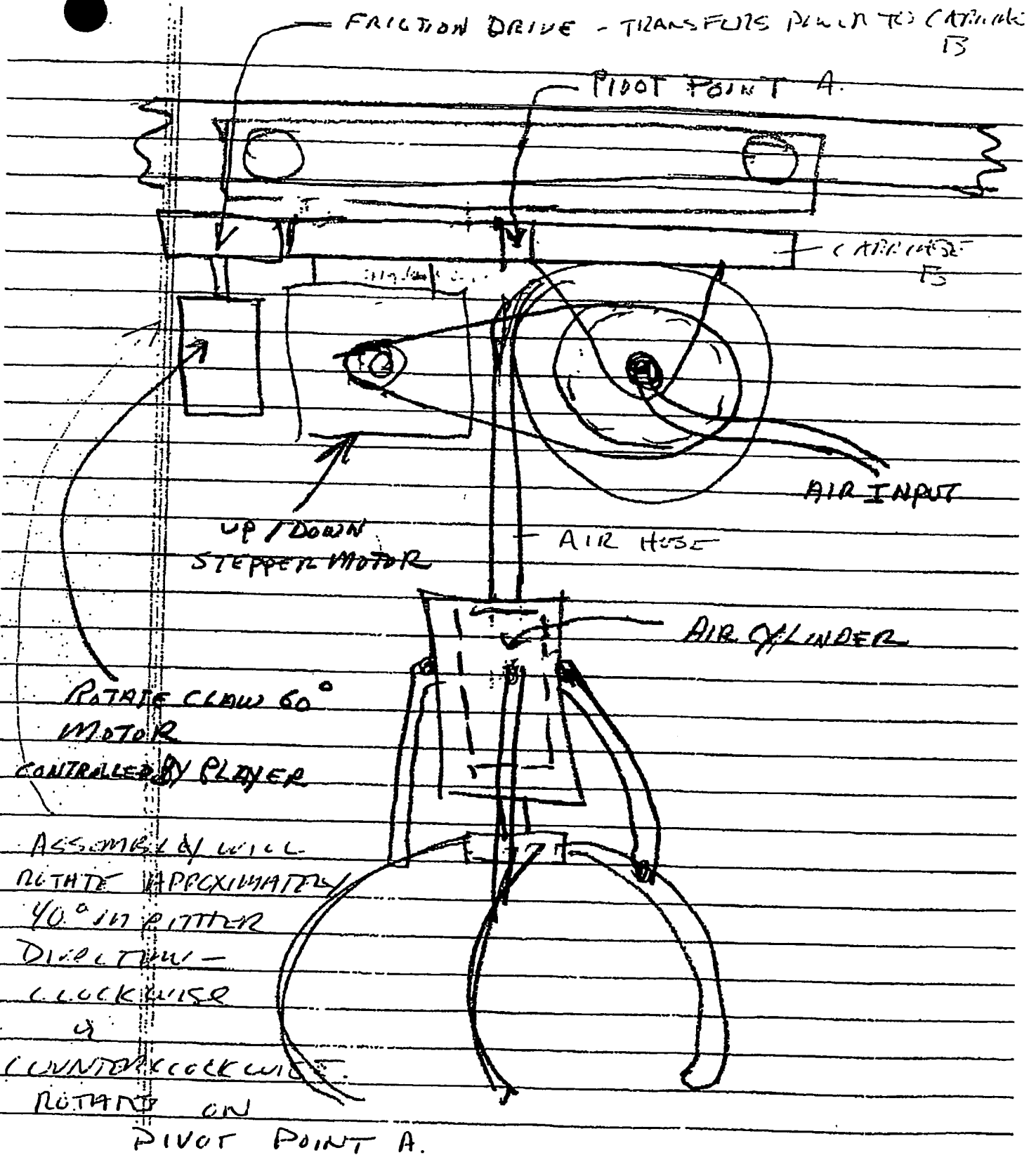
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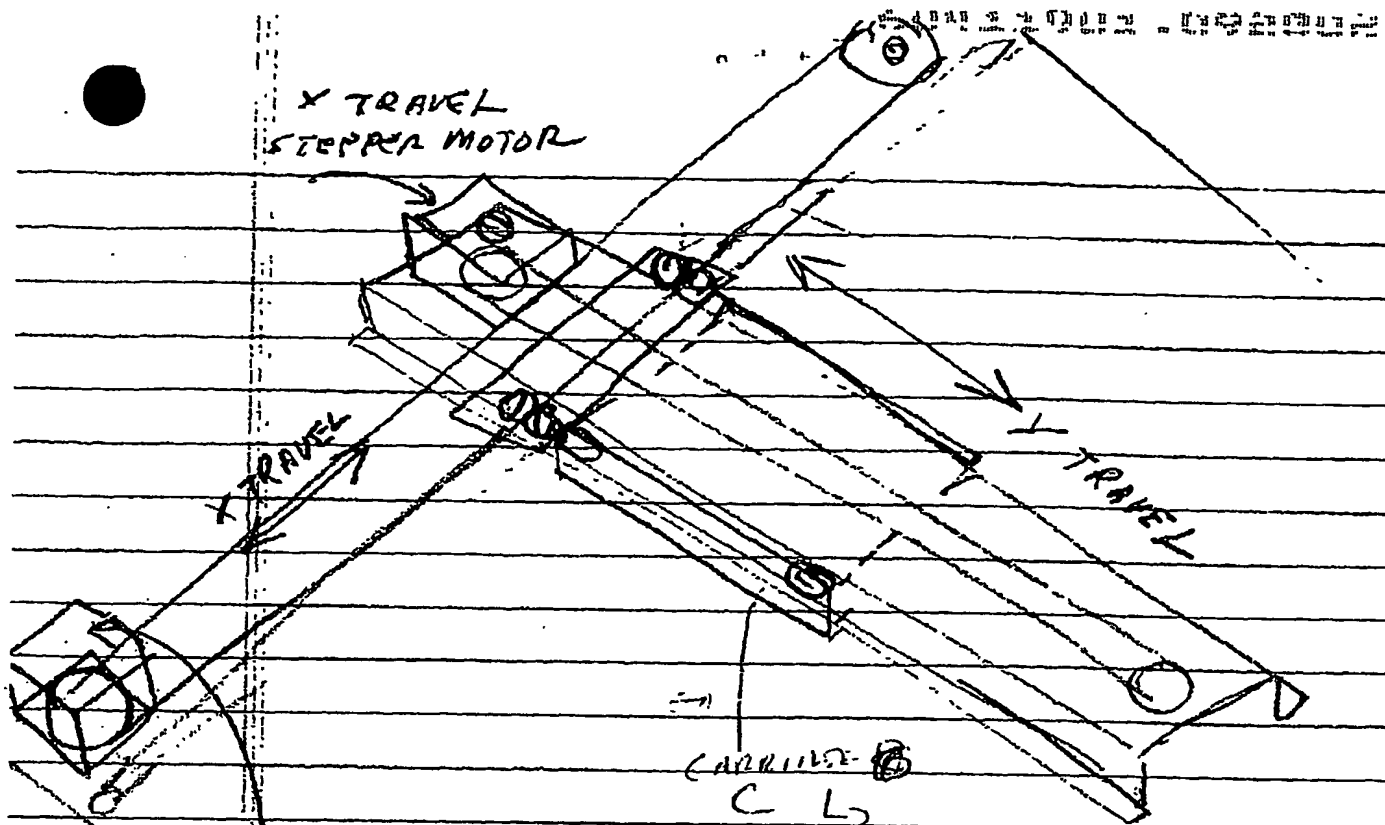
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STEPPER MOTOR X
TRAVEL

CARRIAGE B IS
ATTACHED TO CARRIAGE
C

20 9/20

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